

WE CLAIM:

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1. A single crystal seed alloy composition comprising:
nickel; and,
in the proportion of 5 to 50 weight, % a further metal selected from the Transition Series of elements in Period VI of the Periodic Table of elements.
Cr Mo W
 - 10 2. A single crystal seed alloy composition as claimed in claim 1, which alloy composition has a solidification temperature which is not less than 1300°C and not greater than 1400°C.
 - 15 3. A single crystal seed alloy composition as claimed in claim 1 consisting essentially of nickel and the further metal.
 - 20 4. A single crystal seed alloy composition as claimed in claim 1, wherein the further metal is present in the range 13 to 50 weight %.
 - 25 5. A single crystal seed alloy composition as claimed in claim 1, wherein the alloy composition forms substantially no oxide layer when molten.
 - 30 6. A single crystal seed alloy composition as claimed in claim 1, which alloy composition contains no aluminium.
 - 35 7. A single crystal seed alloy composition as claimed in claim 1, which alloy composition contains no titanium.
 8. A single crystal seed alloy composition as claimed in claim 1, wherein the alloy has a

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solidification temperature range not greater than 50C°.

9. A single crystal seed alloy composition as claimed in claim 8, wherein the alloy has a solidification temperature range not greater than 20C°.

10. A single crystal seed alloy composition comprising:

nickel; and,

nickel; and,
in the proportion of 5 to 50 weight, & a further
metal selected from the Transition Series of elements
in Period VI of the Periodic Table of elements,
wherein the alloy composition has a solidification
temperature which is not less than 1300°C and not
greater than 1400°C, and a solidification temperature
range which is not greater than 20C°.

11. A single crystal seed alloy composition as claimed in claim 1, wherein the further metal comprises tungsten in the range 5 to 50 weight %.

12. A single crystal seed alloy composition as claimed in claim 11, wherein the tungsten is present in the range 13 to 40 weight %.

13. A single crystal seed alloy composition consisting essentially of:

nickel; and,

nickel; and, tungsten in the proportion of 13 to 40 weight %, wherein the alloy composition has a solidification temperature which is not less than 1300°C and not greater than 1400°C, and a solidification temperature range which is not greater than 20C°.

14. A single crystal seed alloy composition as claimed in any one of claim 1, wherein the further

metal comprises tantalum in the range 5 to 50 weight %.

15. A single crystal seed alloy composition as claimed in claim 14, wherein the tantalum is present in the range 13 to 50 weight %.

16. A single crystal seed alloy composition as claimed in claim 15, wherein the tantalum is present in the range 20 to 45 weight %.

10 17. A single crystal seed alloy composition as claimed in claim 16, wherein the tantalum is present in the range 25 to 35 weight %.

15 18. A single crystal seed alloy composition consisting essentially of:

nickel; and, tantalum in the proportion of 25 to 35 weight %, wherein the alloy composition has a solidification temperature which is not less than 1300°C and not greater than 1400°C, and a solidification temperature range which is not greater than 20C°.

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